

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

LISTING OF CLAIMS:

1. (Currently Amended) A hybrid vehicle slip stop device comprising:
a plurality of different types of slip stop means for preventing slip of the vehicle by increasing the frictional resistance relative to a road surface on which the vehicle is traveling,

wherein each of the plurality of different types of slip stop means performs the function of preventing slip of the vehicle by itself and independently of the other slip stop means.

2. (Currently Amended) A hybrid vehicle slip stop device as claimed in claim 1 further comprising:

a road surface condition detecting means for detecting the road surface condition, wherein one of said plurality of different types of slip stop means is structured to be selected and actuated according to the road surface condition detected by said road surface condition detecting means.

3. (Original) A hybrid vehicle slip stop device as claimed in claim 1 wherein said plurality of different types of slip stop means are provided for the same one tire of the vehicle.

4. (New) The hybrid vehicle slip stop device according to claim 1, further comprising selection means for allowing a user to select and activate at least one of the plurality of different types of slip stop means.

5. (New) The hybrid vehicle slip stop device according to claim 1, further comprising a controller configured to actuate the plurality of different types of slip stop means under a predetermined condition, the controller comparing a stepping force on a brake pedal and a deceleration of a vehicle with respective thresholds to determine if the predetermined condition is satisfied.

6. (New) A hybrid vehicle slip stop device, comprising:
a slip preventive material dispenser which is mounted on a vehicle and which dispenses slip preventive material to increase a frictional resistance between a wheel of the vehicle and the road surface;
slip stop means mounted on the vehicle for preventing slip of the vehicle by increasing the frictional resistance relative to a road surface on which the vehicle is traveling, the slip stop means being of a type that is different from the slip preventive material dispenser;
each of the slip preventive material dispenser and the slip stop means performing the function of preventing slip of the vehicle by itself and independently of one another; and
a controller for actuating each of the slip preventive material dispenser and the slip stop means according to a predetermined condition.

7. (New) The hybrid vehicle slip stop device according to claim 6, further comprising a road surface condition detector for detecting a condition of the road surface, the controller actuating at least one of the slip preventive material dispenser and the slip stop means based on the condition of the road surface detected by the road surface condition detector.

8. (New) The hybrid vehicle slip stop device according to claim 6, wherein the slip preventive material dispenser dispenses the slip preventive material to increase the frictional resistance of the wheel relative to the road surface under a first road surface condition, and the slip stop means increases the frictional resistance of the vehicle relative to the road surface under a second road surface condition different from the first road surface condition.

9. (New) The hybrid vehicle slip stop device according to claim 6, further comprising a selection switch for allowing a user to select and actuate at least one of the slip preventive material dispenser and the slip stop means.

10. (New) The hybrid vehicle slip stop device according to claim 6, wherein the slip preventive material dispenser includes a container containing the slip preventive material, and the controller is configured to monitor the amount of slip preventive material remaining in the container, and in the event that insufficient slip preventive material is present in the container actuates the slip stop means under the predetermined condition.

11. (New) The hybrid vehicle slip stop device according to claim 6, wherein the controller compares a stepping force on a brake pedal and a deceleration of the vehicle with respective thresholds to determine if the predetermined condition is satisfied.

12. (New) The hybrid vehicle slip stop device according to claim 6, wherein the slip stop means comprises a brake plate mounted on the vehicle and movable from a position spaced from a road surface to a position contacting the road surface to increase a frictional resistance of the vehicle relative to the road surface.

13. (New) A hybrid vehicle slip stop device comprising:
a movable plate mounted on a vehicle and movable from a position spaced from a road surface to a position contacting the road surface to increase a frictional resistance of the vehicle relative to the road surface;

slip stop means mounted on the vehicle for preventing slip of the vehicle by increasing the frictional resistance relative to a road surface on which the vehicle is traveling, the slip stop means being of a type that is different from the movable plate;

each of the movable plate and the slip stop means performing the function of preventing slip of the vehicle by itself and independently of one another; and

a controller for actuating each of the movable plate and the slip stop means according to a predetermined condition.

14. (New) The hybrid vehicle slip stop device according to claim 13, further comprising a road surface condition detector for detecting a condition of the road surface, the controller actuating at least one of the movable plate and the slip stop means based on the condition of the road surface detected by the road surface condition detector.

15. (New) The hybrid vehicle slip stop device according to claim 13, wherein the movable plate increases the frictional resistance of the vehicle relative to the road surface under a first road surface condition, and the slip stop means increases the frictional resistance of the vehicle relative to the road surface under a second road surface condition different from the first road surface condition.

16. (New) The hybrid vehicle slip stop device according to claim 13, further comprising a selection switch for allowing a user to select and actuate at least one of the slip stop means and the movable plate.

17. (New) The hybrid vehicle slip stop device according to claim 13, wherein the slip stop means comprises a container containing slip preventive material and a nozzle connected to the container from which the slip preventive material in container is dispensed, further comprising an accumulator connected to the nozzle by way of at least one valve, the accumulator containing a pressurized gas to dispense the slip preventive material in the container from the nozzle.

18. (New) The hybrid vehicle slip stop device according to claim 17, wherein the at least one valve is connected to the container and to the nozzle, the at least one valve permitting communication of the accumulator with the container to supply the pressurized gas to the container to dispense the slip preventative material from the nozzle, the at least one valve also preventing communication of the accumulator with the container so that the pressurized gas in the accumulator is supplied to the nozzle.

19. (New) The hybrid vehicle slip stop device according to claim 13, wherein the controller is configured to compare a stepping force on a brake pedal and a deceleration of a vehicle with respective thresholds to determine if the predetermined condition is satisfied.